

To: Matt Francis[m.francis@erllc.com]; Way, Steven[way.steven@epa.gov]
From: Christner, Jan
Sent: Wed 10/7/2015 12:08:18 AM
Subject: RE: Draft Reclamation Plan

Matt and Steve,

Our 3 main reclamation areas work out to about 1.4 acres (Google Earth estimate), but we will be adding road stubs, widened roads, and other miscellaneous areas, so my estimates here are for 2 acres. We can have Anne or one of her cohorts walk the areas with a GPS if you prefer a finer tuned area estimate.

COMPOST

For the compost, the amount depends on the % organic carbon, % moisture, and bulk density. I calculated the following amounts, depending on the source. One of the compost suppliers I looked at, Southwest Soils, sent analytical that won't be acceptable because there's too much ammonia. The funny thing is that they supply materials to Durango Nursery and those products look really good, so you might want to talk to them about one of the products they sell to Durango Nursery.

If you pick another source or different compost from one of the sources, let me know and I'll do the calculation of the amount needed (unless you want me to send the spreadsheet...). For whoever you select, please make sure they send compost comparable to the analysis they sent for our review. I've had bad experience with a company that sent a very different product (partially composted manure that contained high ammonia and soluble salts) and it inhibited growth for over 2 years.

Durango Nursery

Michael Hotchkiss

Inventory Manager

Durango Nursery and Supply

271 Kaycee Lane

Durango, CO. 81303

970-259-8800

michael@durangonursery.com

- Durango Sheep and Aspen: 162 cy (\$51.45/cy at Durango Nursery, delivered, may be lower when you send a delivery address)
- Durango Steer Manure Compost: 110 cy (\$47.27/cy at Durango Nursery, delivered, may be lower when you send a delivery address)

3XM Grinding Compost, LLC

Keith Mautz

59097 Banner Road

Olathe, CO 81425

970-234-8324

220 cy (No price quote)

Southwest Soils (see above)

Shawn Apt

shawn@southwestsoils.com

970-323-6300

970-361-2590 (cell)

Wagner Bid: Sustane Concentrated Compost: 24 cy (This is more a compost based fertilizer than compost so needs to be applied at a lower rate. I prefer actual compost because it builds up

and provides structure to the soil, but we can use this if necessary.)

EROSION BLANKET

We want 30 to 36 month double net coconut erosion control blanket. For 2 acres including 10% overlap and anchoring and 10% waste, I estimate 2.4 acres (11,800 sy) of erosion blanket. If you're concerned about having extra, order 8,000 - 10,000 and we can get more if needed.

There is a relatively local company that makes erosion control blankets and they are worth checking on: Western Excelsior, 901 Grand Avenue, Mancos, CO. 1-800-833-8573. Either the Excel CC-4 or the Excel CC-4 All Natural. These come in 7.5 foot or 16 foot widths and 112.5 to 450 foot lengths. This is the western area headquarters and is relatively close to the site so may be a good choice.

<http://www.westernexcelsior.com/products/longterm.html>

Durango Nursery: Long Term Erosion Control Products (30-36 months).

Sells the same products as Western Excelsior (see bid I forwarded Friday evening).

A.M. Leonard, 1-800-543-8955. Coconut Erosion Control Blanket. This comes in an 8 foot x 113 foot roll.

<http://www.amleo.com/coconut-erosion-control-blanket%252c-8ft-x-113ft-roll/p/C4000/>

<http://www.amleo.com/erosion-control/c/P14B/?&mkwid=samSiT9Qn|dc&pcrid=55248819232&pkw=erosion%20blankets&pmt=c&plc=&kc=>

Wagner: Gave costs for a 2 year control product, so you'd need to get a revision on the product Asa proposed. Asa proposed 2 acres of erosion control blanket but didn't account for the amount needed for overlap and anchoring. Since our area is not absolute, we could order the amount he proposed and add more later if you prefer that to having extra.

FASTENERS

We need 6" fasteners (staples or another product recommended by the erosion control blanket manufacturer for this purpose). They will be applied on 1.5 foot centers across the entire blanket, so get about 33,000 staples.

COIR LOGS

You've done erosion control before. If you can do erosion control by building trenches/water bars and covering with the blanket as discussed in the plan we can do without. If it is easier for you to use the logs to build up the trenches/water bars, go ahead.

Let me know if you want more information.

Jan

From: Matt Francis [mailto:m.francis@erllc.com]
Sent: Tuesday, October 06, 2015 4:45 PM
To: Way, Steven; Christner, Jan
Subject: RE: Draft Reclamation Plan

Jan - in the plan I don't see any spec on the compost. Is it in there? Was there a compost preference for one of those proposed by the vendors (Durango Nursery, Wagner, etc)? I saw the 3yr double net coconut blanket spec – any preference on what vendors provided? Also, coir logs are listed as a “maybe.” Any input on amount to order would be appreciated.

Thanks

Matt

From: Way, Steven [mailto:way.steven@epa.gov]
Sent: Tuesday, October 06, 2015 3:15 PM
To: Matt Francis <m.francis@erllc.com>
Subject: Fwd: Draft Reclamation Plan

Sent from my iPhone

Begin forwarded message:

From: "Christner, Jan" <Jan.Christner@WestonSolutions.com>
To: "Way, Steven" <way.steven@epa.gov>
Cc: "Petri, Elliott" <Elliott.Petri@WestonSolutions.com>, "Goertz, Dave" <Dave.Goertz@WestonSolutions.com>
Subject: Draft Reclamation Plan

Steve,

I thought I'd sent this Friday night but it doesn't show in my "sent" folder. I even remember writing the e-mail. Oh, well, so much for electronic communication.

Please see the attached DRAFT Reclamation Plan for the Gold King Treatment/Stabilization project. I've attached both the pdf version that has all tables and graphs and the Word document for your convenience. This document is submitted for your review and comment. Please contact me, Elliott, or Dave if you have questions or comments.

Jan

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